Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the

application. Applicant has submitted a new complete claim set showing any marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double

bracketing.

Listing of Claims:

1. (Currently amended) A method for dynamically updating <u>a collection of information in a</u>

<u>database including a plurality of pre-existing clusters of information for publication comprising:</u>

a) extracting from received information a set of characterizing features which

characterize the received information:

b) updating the collection of information by grouping together the received information

with one or more pre-existing clusters in the collection that have having common-characterizing

features in common with the received information into a number of clusters; and

c) using the information obtained in the grouping step to publishing at least a portion of

the updated collection of information contained in a cluster-based on a customer request for

information.

2. (Currently amended) The method of claim 1 wherein the received information comprises

a combination of one or more of text data, image data, andor video data.

3. (Original) The method of claim 1 wherein said received information comprises multiple

features of a given type and wherein the multiple features are ranked in importance as the

features are extracted.

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4. (Original) The method of claim 3 wherein a cluster includes a summarization of cluster

features and additionally comprising comparing the features that summarize newly received information with features summarized in a cluster by taking an inner product of the features

common to the newly received information and the features that summarize said cluster and

combining the newly received information with a cluster if the inner product exceeds a threshold.

 (Currently amended) The method of claim 3+ wherein a number of the top-K features of rank of a newly received item of information are compared with a corresponding number of the

top K features of a cluster to determine if said information is added to a cluster.

(Currently amended) The method of claim 5 wherein each feature has a relevancy factor

by which the feature is scaled and additionally determining if a cluster and the newly received

information have at least a number of L common features having non-zero relevancy factors

before adding the received information into a cluster.

7. (Original) The method of claim 1 additionally comprising grouping together clusters

having a common characteristics to produce a neighborhood of clusters which are all published

in response to a customer request.

8. (Original) The method of claim 7 wherein the received information is a text containing

document and a relevancy of a neighborhood is used to determine whether to publish documents

in a neighborhood to a customer.

9. (Original) The method of claim 8 wherein the relevancy varies depending on how long

the document has been assigned to the neighborhood.

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10. (Original) The method of claim 8 wherein the relevancy varies with information

contained in the request for information.

11. (Currently amended) The method of claim 7 wherein an item of received information

ismay be grouped into more than one cluster but published with only one neighborhood.

12. (Original) The method of claim 11 additionally comprising maintaining a null

neighborhood and adding received information to the null neighborhood when said information

is initially received.

13. (Original) The method of claim 11 additionally comprising maintaining a null

neighborhood and adding received information to the null neighborhood when contents of a

neighborhood change due to a reconstituting of said neighborhood.

14. (Original) The method of claim 11 additionally comprising maintaining a null

neighborhood and adding received information to the null neighborhood when a neighborhood to

which the received information becomes non-relevant.

15. (Withdrawn) A process for evaluating documents comprising:

a) evaluating multiple documents containing text data for subsequent publication by

extracting K tokens having a highest token relevance factor based on the frequency of token

occurrence within the document;

b) grouping together documents having a commonality in said text data that is greater

than a threshold to provide a number of document clusters of said documents; said grouping

performed by:

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i) comparing the K tokens from a candidate document with a document cluster

characterizing set of tokens;

ii) adding a candidate document to a document cluster if the comparison indicates

a sufficient degree of similarity between the candidate document and said document

cluster; and

iii) updating a document cluster summarization that takes into account the added

candidate document; and

c) publishing documents assigned to a specified document cluster or document clusters

based upon a request.

16. (Withdrawn) The process of claim 15 wherein documents have document categories and

evaluating the token relevance factor comprises determining a category frequency of tokens

within a document category and assigning a relevance factor to said token based on said category

frequency.

17. (Withdrawn) The process of claim 16 wherein tokens are assigned a relevance factor

based on a position of a token within the document.

18. (Withdrawn) The process of claim 15 wherein if said candidate document is not

sufficiently similar to a cluster it forms the basis of its own new cluster.

19. (Withdrawn) The process of claim 15 wherein the token relevance factor is determined

from a relation $\exp(-a*p.sub.0i)*N.sub.i*R.sub.i$, where a is the decay rate of token relevance as

a function of the distance from the beginning of the text of a document D, p.sub.0i is the position

at which token i first appears in the text, N.sub.i is the number of occurrences of token i and

R.sub.i is the log of the inverse document frequency of token i in the category of documents to

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which the document D belongs.

20. (Withdrawn) The process of claim 15 wherein clusters of documents are clustered to

form neighborhoods of documents to which documents are assigned.

21. (Withdrawn) The process of claim 16 wherein the neighborhoods are assigned a

neighborhood relevancy factor which varies with time, said neighborhood relevancy factor used

to determine to whom a neighborhood is published.

22. (Withdrawn) The process of claim 21 wherein the neighborhood relevancy number also

varies with a document relevancy factor of documents that make up the neighborhood.

23. (Withdrawn) The process of claim 22 wherein the document relevancy factor depends on

the quality of the source of the document.

24. (Withdrawn) The process of claim 22 wherein the document relevancy factor depends on

the location of the source and the location of a requestor.

25. (Withdrawn) The process of claim 21 wherein the neighborhood relevancy factor varies

with the category of documents assigned to said neighborhood.

(Withdrawn) A system for evaluating documents comprising:

a) a preprocessor for receiving text documents from one of a plurality of document

sources and evaluating text data contained in each received document for determining suitability

of the document for subsequent publication based on a request; said preprocessor grouping

together documents having a commonality greater than a threshold to provide a number of

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clusters of said documents; and

b) a web server having access to the cluster data from the preprocessor for making

available to a requester documents contained within a cluster based a comparison between a

request from the requester and a summarization of text contained within documents of a

specified cluster or clusters.

27. (Withdrawn) The system of claim 26 wherein the preprocessor groups together clusters

into a neighborhood of clusters and further wherein documents within a neighborhood are made

available to a requester.

28. (Withdrawn) The system of claim 26 wherein a cluster of documents is removed from

publication by the web server based on a cluster relevancy of the entire cluster.

29. (Currently amended) A computer readable storage medium containing instructions for

executing a method for dynamically updating a collection of information in a database including

a plurality of pre-existing clusters of information for publication, the method comprising

instructions for:

a) extracting from received information a set of characterizing features which

characterize the received information;

b) <u>updating the collection of information by grouping together-the received information</u>

with one or more pre-existing clusters in the collection that have having common characterizing

features in common with the received information into a number of clusters; and

c) using the information obtained in the grouping step to publishing at least a portion of

the updated collection of information contained in a cluster based on a customer request for

information.

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30. (Currently amended) The computer readable storage medium of claim 29 wherein the

received information comprises a combination of one or more of text data, image data, ander

video data.

31. (Currently amended) The computer readable storage medium of claim 29 wherein said

received information comprises multiple features of a given type and wherein the multiple

features are ranked in importance as the features are extracted.

32. (Currently amended) The computer readable storage medium of claim 31 wherein a

cluster includes a summarization of cluster features and additionally comprising comparing the features that summarize newly received information with features summarized in a cluster by

taking an inner product of the features common to the newly received information and the

features that summarize said cluster and combining the newly received information with a cluster

if the inner product exceeds a threshold.

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33. (Currently amended) The computer readable <u>storage</u> medium of claim <u>3129</u> wherein a <u>number of the top K</u> features of rank of a newly received item of information are compared with a

corresponding number of the top K features of a cluster to determine if said information is added

to a cluster.

34. (Currently amended) The computer readable storage medium of claim 33 wherein each

feature has a relevancy factor by which the feature is scaled and additionally determining if a

cluster and the newly received information have at least \underline{a} number of \underline{L} common features having

non-zero relevancy factors before adding the received information into a cluster.

35. (Currently amended) The computer readable storage medium of claim 29 comprising an

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additional step of grouping together clusters having a common characteristics to produce a

neighborhood of clusters which are all published in response to a customer request.

36. (Currently amended) The computer readable <u>storage</u> medium of claim 35 wherein a relevancy of a neighborhood is used to determine whether to publish documents in a

neighborhood to a customer.

37. (Currently amended) The computer readable storage medium of claim 36 wherein the

relevancy varies with how long the document has been in the neighborhood.

38. (Currently amended) The computer readable storage medium of claim 36 wherein the

relevancy varies with information contained in a request for information.

39. (Currently amended) The computer readable storage medium of claim 35 additionally

comprising maintaining a null neighborhood and adding received information to the null

neighborhood when said information is initially received.

 (Currently amended) The computer readable <u>storage</u> medium of claim 35 additionally comprising maintaining a null neighborhood and adding received information to the null

neighborhood when contents of a neighborhood change due to a reconstituting of said

neighborhood when contents of a neighborhood change due to a reconstituting of said

neighborhood.

41. (Currently amended) The computer readable storage medium of claim 35 additionally

comprising maintaining a null neighborhood and adding received information to the null

neighborhood when a neighborhood to which the received information becomes non-relevant.

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42. (New) The method of claim 1 further comprising updating the collection of information by forming a new cluster containing the received information if there are no pre-existing clusters

in the collection that have characterizing features in common with the received information.

43. (New) The computer readable storage medium of claim 29 further comprising updating

the collection of information by forming a new cluster containing the received information if

there are no pre-existing clusters in the collection that have characterizing features in common

with the received information.

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